

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(waveguide and gas near3 laser and distance and first and second and zigzag and ceramic near3 block).clm.	US-PGPUB	OR	OFF	2005/09/08 13:28
L2	1	(waveguide and gas near3 laser and lateral near3 extension and zigzag and ceramic near3 block).clm.	US-PGPUB	OR	OFF	2005/09/08 13:28
S1	3	("5140606") or ("5353297") or ("6192061").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/07 14:45
S2	0	folded near3 waveguide and gas near3 laser and preioni\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 14:45
S3	0	folded near3 waveguide\$1 and gas near3 laser and preioni\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 14:46
S4	48	waveguide\$1 and gas near3 laser and preioni\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 15:00
S5	42	folded near3 waveguide\$1 and gas near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 15:22
S6	264	372/86.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 15:22
S7	279	372/64.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 16:37
S8	1403	372/55.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 16:38
S9	1370	S8 not S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 16:38

S10	1343	S9 not S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 16:39
S11	158	S10 and (ignit\$3 or preioni\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 16:57
S12	1185	S10 not S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 18:21
S13	1955	john near3 kennedy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 18:22
S14	20	john near3 kennedy and gas near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 18:23
S15	18	lanny near3 laughman and gas near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 18:27
S16	19	anthony near3 demaria and gas near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 18:28
S17	1	ronald near3 straayer and gas near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/07 18:28


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

 Search Results**BROWSE****SEARCH****IEEE XPLORE GUIDE**

Results for "((waveguide<in>metadata) <and> (gas<in>metadata))<and> (laser<in>g..."

 [e-mail](#)

Your search matched 216 of 1233246 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance in Descending order**.**» Search Options**[View Session History](#)[New Search](#)**» Other Resources**

(Available For Purchase)

Top Book Results[Tunable Laser Diodes and Related](#)[Optical Sources](#)by Buus, J.; Armann, M.-C.;
Blumenthal, D. J.;
Hardcover, Edition: 2[View All 1 Result\(s\)](#)**» Key****IEEE JNL** IEEE Journal or Magazine**IEE JNL** IEE Journal or Magazine**IEEE CNF** IEEE Conference Proceeding**IEE CNF** IEE Conference Proceeding**IEEE STD** IEEE Standard**Modify Search** Check to search only within this results setDisplay Format: Citation Citation & Abstract**Select Article Information****View: 1-25 | [26-5](#)**

1. **Waveguide CO2laser gain: Dependence on gas kinetic and discharge properties**
 Cohen, S.;
 Quantum Electronics, IEEE Journal of
 Volume 12, Issue 4, Apr 1976 Page(s):237 - 244
Summary: Using a simple rate equation approach we examine the gas kinetic properties of waveguide CO2lasers. We calculate the dependence of the population and laser small-signal gain on gas pressure, gas mixture, pumping rate,....
[AbstractPlus](#) | Full Text: [PDF\(760 KB\)](#) IEEE JNL
2. **Discharge-induced frequency modulation of RF excited CO₂ waveguide lasers**
 Colley, A.D.; Abramski, K.M.; Baker, H.J.; Hall, D.R.;
 Quantum Electronics, IEEE Journal of
 Volume 27, Issue 7, July 1991 Page(s):1939 - 1945
 Digital Object Identifier 10.1109/3.83396
Summary: The mechanisms causing a shift in the oscillation frequency of an F₂ waveguide laser through changes in the discharge excitation power are investigated. Frequency shifts in the range of ±0.5 to 1 MHz per watt of RF input....
[AbstractPlus](#) | Full Text: [PDF\(624 KB\)](#) IEEE JNL
3. **Hollow-waveguide gas sensing with room-temperature quantum cascade lasers**
 Charlton, C.; de Melas, F.; Inberg, A.; Croitoru, N.; Mizaikeff, B.;
 Optoelectronics, IEE Proceedings-
 Volume 150, Issue 4, Aug 2003 Page(s):306 - 309
 Digital Object Identifier 10.1049/ip-opt:20030673
Summary: The application of a room-temperature-operated distributed-feedback quantum cascade laser (DFB-QCL), coupled with a silica hollow waveguide for small-volume gas sensing is demonstrated. An internally silver-coated silica capillary, with a length of 4....
[AbstractPlus](#) | Full Text: [PDF\(274 KB\)](#) IEE JNL
4. **Low loss AlN (aluminum nitride) waveguide and AlN (aluminum nitride) waveguide CO/sub 2/ laser**
 Matsushima, T.; Kawanabe, J.; Saimi, S.; Cho, Y.;
 Infrared and Millimeter Waves, 2002. Conference Digest. Twenty Seventh International Conference on
 22-26 Sept. 2002 Page(s):313 - 314
 Digital Object Identifier 10.1109/ICIMW.2002.1076210
Summary: A hollow dielectric waveguide using AlN (aluminum nitride) is tested as a compact CO₂/laser that is expected to be used for ultra-high sensitivity/reliability measurement of carbon dioxide concentration in atmospheric air. The attenuat

[Home](#)[Overview](#)[Publications](#)

Search RD Database

Database last update

[Log in](#)**Search**

- Quick Search
- Advanced Search
- Numeric Search
- Recent Search
- Last Result Set

Recent Disclosures**Search parameters information**[Quick Search](#)[Advanced Search](#)[Numeric Search](#)[Recent Searches](#)**Results for search query***All = "waveguide" AND "laser"*

From Jan 1960 To Dec 2003

12 Disclosures found

[Refine search](#)Display [results](#)

Page: [1]

Down

RD ID	Disclosure title
359032	Ring laser with grating coupler
323042	Low threshold, surface emitting distributed feedback laser diode
275041	Reduction of optical feedback effects during reading and writing in optical recording
338056	Holographic cover plate laser power monitor
314071	Bar code reader
173059	Master disc configuration for improved contact printing replication of video discs
429122	Through-silicon optical modulator device used for silicon debugging
303044	Flexible interposing carrier scheme for optical waveguides
348046	Cerenkov device for optical read out system
120052	Dye laser excited by a diode laser
460137	Free-space optical backplane
460139	Free space optical coupler modules

Page: [1]

Down